

AD-A087 459

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2
197038 MLRS, MISSILE NUMBERS 39, 38, 36, ROUND NUMBERS B-85, B---ETC(U)
FEB 80

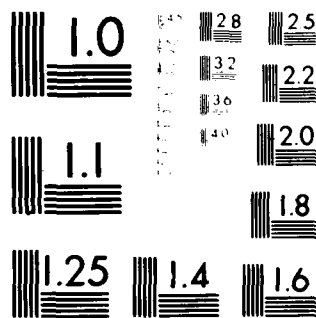
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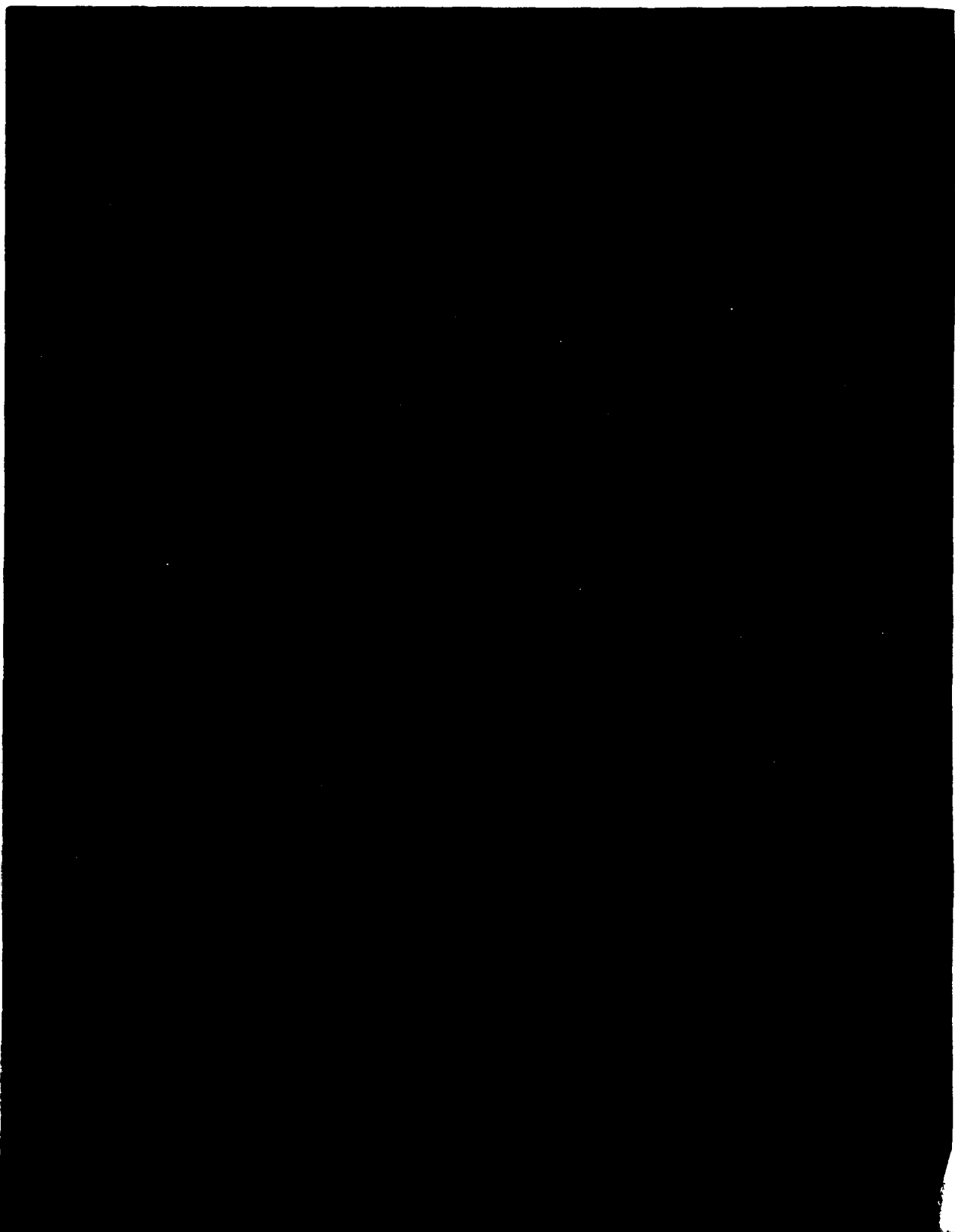


MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

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22. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 19703B MLRS, Missile Numbers 39, 38 and 36, Round Numbers B-85, B-86 and B-87 are presented in tabular form.		

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INTRODUCTION

197038 MLRS, Missile Numbers 39, 38, 36, Round Numbers B-85, B-86
B-87, were launched from LC-39, White Sands Missile Range (WSMR),
New Mexico, at 1322:22, 1410:01, 1457:01 MST, 12 February 1980.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{F}$), relative humidity, dew point ($^{\circ}\text{F}$), wind direction and speed, and cloud cover were made at the "C" Station Met Site.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE

LC-39 2km
SMR 2km

(2) Air structure data (rawinsonde) were collected at the following Met Sites.

SITE AND TIME

LC-37 1321 MST
WSD 1330 MST
LC-37 1500 MST

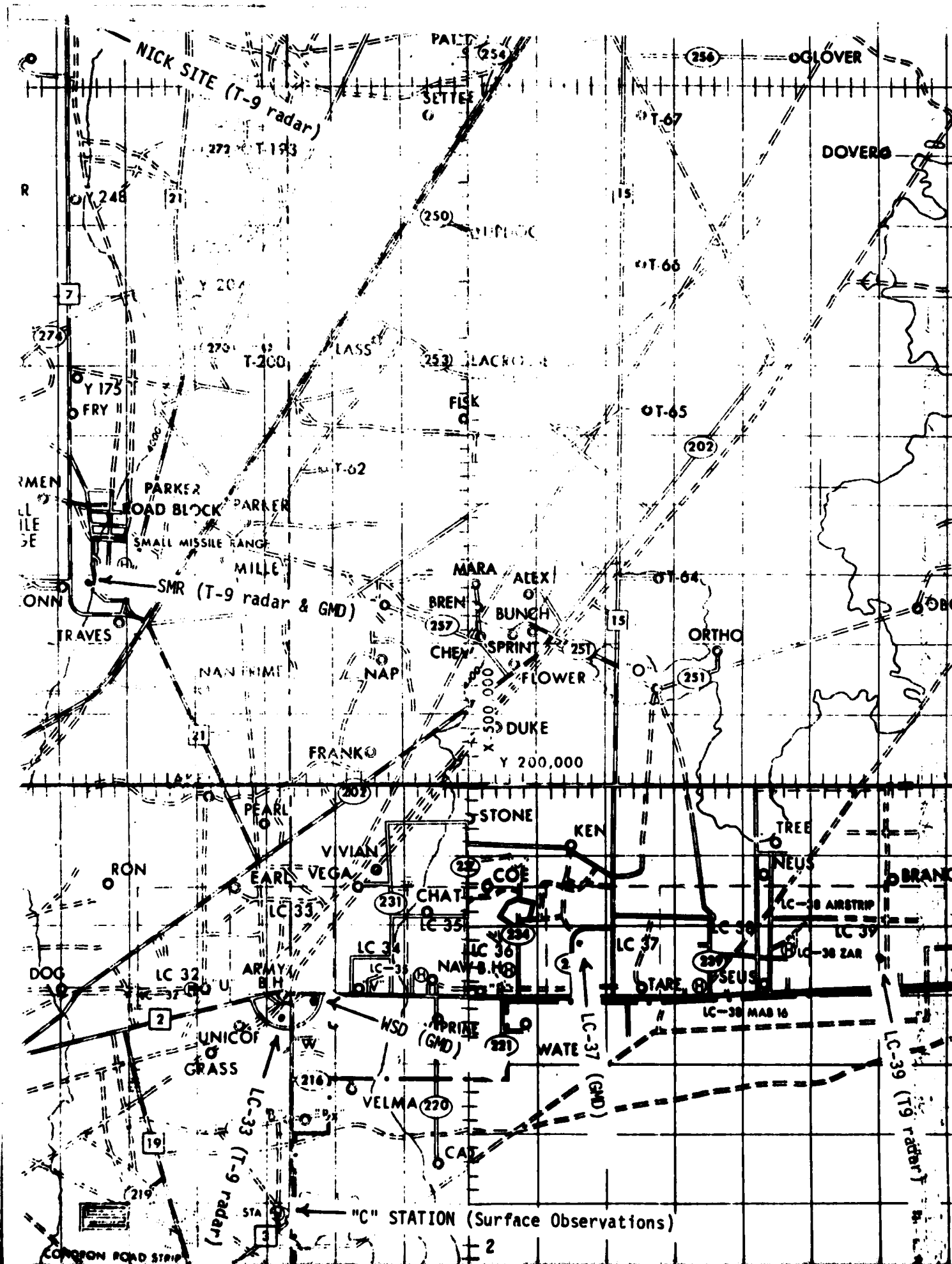


TABLE 1.

SURFACE OBSERVATIONS OBTAINED FROM "C" STATION ON 12 February 1980

TIME MST	SKY CONDITIONS	PVIS VSIBY	WEATHER AND OBSTRUCTIONS TO VISION	PA P. DEF	TEMP F	TEMP C	WIND DIR	WIND SPEED
0058	CLR	20		25.975	28	23	160	02
0158	CLR	20		25.980	26	24	120	06
0258	CLR	20		25.970	26	20	300	06
0358	CLR	20		25.975	24	15	120	05
0458	CLR	20		25.975	26	18	220	03
0558	CLR	20		25.975	27	21	280	02
0658	250-SCT	30		25.990	25	18	130	02
0758	250-SCT	40		26.015	27	21	360	04
0858	250-BKN	40		26.030	34	27	360	02
0958	250-BKN	40		26.030	42	30	030	02
1058	E250-BKN	40		26.020	47	32	E270	03
1158	E250-BKN	40		25.990	53	35	180	11
1258	60SCTE250-BKN	40		25.945	58	30	200	11
1358	60SCTE250-BKN	40		25.925	54	29	220	11
1458	60SCTE250 BKN	40		25.910	58	31	210	08
1558	60SCTE250-BKN	40		25.900	58	31	310	08
1658	60SCTE250-BKN	40		25.895	56	29	230	10
1758	60SCTE250-BKN	40		25.900	51	30	220	08
1858	250SCT	10		25.915	46	29	230	05
1958	CLR	10		25.930	42	30	170	04
2058	CLR	10		25.945	40	30	150	04
2158	CLR	10		25.955	38	29	090	02
2258	CLR	10		25.950	38	31	E100	06
2358	CLR	20		25.940	35	31	200	07

PILOT BALLOON MEASURED WIND DATA

TABLE 2

RELEASED FROM LC-39 DATE 12 February 1980 TIME 1300 MST

TRACKER COORDINATES (WSTM) X= 530,938.82 Y= 186,564.96 H= 4063.75

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL X OR FEET AGL .

[illegible][illegible][illegible]

PILOT BALLOON MEASURED WIND DATA

TABLE 3

RELEASED FROM SMR

DATE 12 February 1980

TIME 1327 MST

TRACKER

COORDINATES (WSTM)

X= 472,441.28

$$Y = 214,137.54$$

11= 3999.00

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL XX OR FEET AGL .

[illegible][illegible][illegible]

PILOT BALLOON MEASURED WIND DATA

TABLE 4

RELEASED FROM LC-39 DATE 12 February 1980 TIME 1400 MST

TRACKER COORDINATES (WSTM) X= 530,938.82 Y = 186,564.96 H= 4063.75

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL XX OR FEET AGL .

[illegible][illegible][illegible]

PILOT BALLOON MEASURED WIND DATA

TABLE 5

RELEASED FROM SMR DATE 12 February 1980 TIME 1417 MST

TRACKER COORDINATES (WSTM) X= 472,441.28 Y= 214,137.54 H= 3999.00

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL X OR FEET AGL .

[illegible][illegible][illegible]

PILOT BALLOON MEASURED WIND DATA

TABLE 6

RELEASED FROM LC-39

DATE 12 February 1980

TIME 1500 MST

TRACKER

COORDINATES (WSTM)

$$X = 530,938.82$$
$$Y = 186,564.96$$

11- 4063.75

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL XX OR FEET AGL .

[illegible][illegible][illegible]

PILOT BALLOON MEASURED WIND DATA

TABLE 1

RELEASED FROM SMR DATE 12 February 1980 TIME 1503 MST

TRACKER COORDINATES (WSTM) X= 472.441.28 Y= 214.137.54 H= 3999.00

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL XX OR FEET AGL .

[illegible][illegible][illegible]

GEODETIC COORDINATES
32.41141 LAT DEG
106.30852 LON DEG

SIGNIFICANT LEVEL DATA
0430180002
LC-37
TABLE 8

STATION ALTITUDE 4047.27 FEET MSL
12 FEB. 68 1321 HRS MST
ASCENSION NO. 2

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
876.8	13.4	-1.7	35.0
859.8	11.0	-4.2	34.0
850.0	8.4	-5.1	38.0
780.4	1.6	-7.2	52.0
704.4	-6.3	-9.7	77.0
700.0	-6.3	-13.6	56.0
689.7	-6.3	-19.9	33.0
686.0	-4.0	-26.0	16.0
680.5	-3.4	-25.5	16.0
605.2	-8.6	-20.9	21.0
500.0	-20.1	-30.2	22.0
400.0	-32.4	-46.4	23.0
376.8	-36.0	-49.2	24.0
300.0	-48.1		
269.4	-54.3		
250.0	-55.1		
241.6	-56.4		
231.0	-55.2		
215.4	-50.9		
200.0	-50.6		
173.2	-49.3		
150.0	-53.4		
136.4	-57.4		
125.2	-60.5		
107.8	-63.9		
100.0	-64.1		

STATION ALTITUDE 4047.27 FEET MSL
12 FEB. 88 1321 MMS MSI
ASCENSION NO. 2

UPPER AIR DATA
0430160002
LC-37

GEODETIC COORDINATES
32.41141 LAT DEG
106.30852 LON DEG

TABLE 9

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
4047.3	876.8	13.4	35.0	1063.5	660.2	210.0	4.1	1.000262
4500.0	862.4	10.0	35.5	1058.9	656.2	212.4	4.4	1.000257
5000.0	846.7	8.1	38.6	1046.8	653.9	214.7	4.7	1.000253
5500.0	831.0	6.6	41.7	1032.9	652.2	216.7	5.0	1.000250
6000.0	815.7	5.1	44.8	1019.3	650.5	222.4	5.0	1.000246
6500.0	800.6	3.6	47.8	1005.9	648.7	229.5	5.1	1.000243
7000.0	785.6	2.2	50.9	992.6	647.0	236.4	5.9	1.000239
7500.0	771.1	.7	54.9	979.3	645.2	238.6	6.6	1.000236
8000.0	756.4	-0.8	59.6	965.9	643.5	239.6	7.5	1.000233
8500.0	742.1	-2.3	64.3	952.8	641.7	240.1	8.5	1.000229
9000.0	728.0	-3.8	69.0	939.9	639.9	242.5	9.5	1.000226
9500.0	714.2	-5.2	73.6	927.1	638.2	245.2	10.3	1.000223
10000.0	700.6	-6.3	78.7	913.5	636.8	249.1	10.8	1.000215
10500.0	687.1	-4.7	21.0	891.1	630.5	252.3	10.5	1.000203
11000.0	673.9	-3.8	16.4	871.3	639.5	255.0	9.4	1.000198
11500.0	660.9	-4.7	17.2	857.3	638.4	254.8	8.3	1.000195
12000.0	648.2	-5.6	18.1	843.5	637.4	250.7	7.4	1.000192
12500.0	635.7	-6.4	18.9	830.0	636.4	244.6	6.9	1.000189
13000.0	623.5	-7.3	19.7	816.6	635.4	237.1	6.9	1.000186
13500.0	611.5	-8.1	20.6	803.5	634.3	233.2	6.7	1.000183
14000.0	599.6	-9.2	21.0	790.9	633.1	232.2	6.3	1.000180
14500.0	587.7	-10.4	21.2	778.8	631.6	244.6	6.2	1.000177
15000.0	576.0	-11.6	21.3	766.8	630.2	261.1	6.8	1.000174
15500.0	564.5	-12.8	21.4	755.1	628.7	272.1	9.0	1.000171
16000.0	553.3	-14.0	21.5	743.6	627.2	278.1	11.7	1.000168
16500.0	542.3	-15.2	21.6	732.3	625.8	275.9	14.0	1.000165
17000.0	531.6	-16.4	21.7	721.1	624.3	273.5	16.3	1.000163
17500.0	521.0	-17.6	21.8	710.1	622.8	270.4	17.3	1.000160
18000.0	510.7	-18.8	21.9	699.4	621.3	267.4	18.2	1.000158
18500.0	500.5	-20.0	22.0	688.8	619.9	265.5	19.4	1.000155
19000.0	490.2	-21.2	22.1	677.6	618.4	263.9	20.6	1.000152
19500.0	480.0	-22.4	22.2	666.6	617.0	262.2	22.6	1.000150
20000.0	470.0	-23.5	22.3	655.7	615.6	260.7	24.6	1.000147
20500.0	460.2	-24.7	22.4	645.1	614.1	261.5	25.3	1.000145
21000.0	450.6	-25.8	22.5	634.7	612.7	262.4	25.8	1.000142
21500.0	441.3	-27.0	22.6	624.4	611.3	264.2	25.6	1.000140
22000.0	432.1	-28.1	22.7	614.3	609.8	266.1	25.2	1.000138
22500.0	423.1	-29.3	22.7	604.4	608.4	267.0	25.7	1.000135
23000.0	414.5	-30.5	22.8	594.6	606.9	267.1	26.5	1.000133
23500.0	405.7	-31.6	22.9	585.1	605.5	268.0	27.3	1.000131

STATION ALTITUDE 4047.27 FEET MSL
12 FEB. 80 1321 HRS MSJ
ASCENSION NO. 2

UPPER AIR DATA
0430180002
LC-37

GEODETTIC COORDINATES
32.41141 LAT DEG
106.30852 LON DEG

TABLE 9 (CONT)

GEODETTIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
24000.0	397.2	-32.8	23.1	575.7	604.0	266.1	28.0	1.000129
24500.0	388.6	-34.1	23.5	566.4	602.3	265.1	28.4	1.000127
25000.0	380.3	-35.4	23.8	557.3	600.7	263.8	28.4	1.000125
25500.0	372.0	-36.7	22.6**	547.9	599.1	262.8	28.4	1.000122
26000.0	363.7	-37.9	20.3**	538.5	597.6	262.4	28.4	1.000120
26500.0	355.0	-39.1	17.9**	529.2	596.1	261.6	28.7	1.000118
27000.0	347.7	-40.3	15.5**	520.1	594.5	260.5	29.2	1.000116
27500.0	340.0	-41.5	13.2**	511.2	593.0	259.8	29.5	1.000114
28000.0	332.5	-42.6	10.8**	502.5	591.5	259.5	29.6	1.000112
28500.0	325.1	-43.8	8.5**	493.9	589.9	259.5	29.7	1.000110
29000.0	317.9	-45.0	6.1**	485.4	588.4	260.0	29.8	1.000108
29500.0	310.8	-46.2	3.7**	477.1	586.9	260.4	30.3	1.000106
30000.0	303.9	-47.4	1.4**	469.0	585.3	260.3	31.8	1.000104
30500.0	297.1	-48.7		461.0	583.7	260.1	33.6	1.000103
31000.0	290.2	-50.0		453.1	581.9	259.8	37.6	1.000101
31500.0	283.5	-51.4		445.3	580.2	259.2	41.6	1.000099
32000.0	277.0	-52.7		437.7	578.4	258.5	41.8	1.000097
32500.0	270.6	-54.1		430.2	576.7	257.5	40.7	1.000096
33000.0	264.2	-54.5		421.0	576.1	256.6	39.5	1.000094
33500.0	258.0	-55.8		411.6	575.7	255.6	38.3	1.000092
34000.0	252.0	-55.0		402.4	575.4	254.7	33.9	1.000090
34500.0	246.1	-55.7		394.2	574.5	241.1	35.9	1.000088
35000.0	240.3	-56.3		385.9	573.8	240.4	41.5	1.000086
35500.0	234.6	-55.6		375.7	574.6	244.4	45.1	1.000084
36000.0	229.1	-54.7		365.3	575.8	246.9	48.2	1.000081
36500.0	223.8	-53.2		354.5	577.7	248.9	51.2	1.000079
37000.0	218.0	-51.8		344.0	579.6	249.2	53.5	1.000077
37500.0	213.5	-50.9		334.6	580.8	249.3	55.5	1.000075
38000.0	208.6	-50.8		326.7	581.0	248.7	57.7	1.000073
38500.0	203.8	-50.7		319.1	581.1	247.6	60.0	1.000071
39000.0	199.1	-50.6		311.6	581.2	246.5	61.4	1.000069
39500.0	194.5	-50.3		304.1	581.5	244.9	62.2	1.000068
40000.0	190.1	-50.1		296.9	581.8	243.3	63.5	1.000066
40500.0	185.7	-49.9		289.8	582.1	241.6	65.1	1.000065
41000.0	181.4	-49.7		282.9	582.3	241.0	67.7	1.000063
41500.0	177.3	-49.5		276.1	582.6	240.7	70.5	1.000061
42000.0	173.2	-49.3		269.6	582.9	241.3	71.9	1.000060
42500.0	169.2	-50.0		264.1	582.0	242.1	72.9	1.000059
43000.0	165.3	-50.6		258.8	581.1	243.0	72.6	1.000058
43500.0	161.5	-51.3		253.6	580.3	245.0	71.6	1.000056

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4047.27 FEET MSL
12 FEB. 88 1321 HRS MST
ASCENSION NO. 2

UPPER AIR DATA
0430180002
LC-37

GEODETIC COORDINATES
32.41141 LAT DEG
106.30852 LON DEG

TABLE 9 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
44000.0	157.0	-52.0		248.5	579.4	247.3	70.0	1.000055
44500.0	154.1	-52.6		243.5	578.5	248.5	67.8	1.000054
45000.0	150.6	-53.3		238.6	577.7	249.5	66.3	1.000053
45500.0	147.0	-54.2		234.0	576.4	249.8	65.6	1.000052
46000.0	143.6	-55.2		229.5	575.1	250.3	65.0	1.000051
46500.0	140.2	-56.2		225.2	573.8	250.7	64.5	1.000050
47000.0	136.9	-57.2		220.9	572.4	251.4	62.9	1.000049
47500.0	133.7	-58.1		216.5	571.3	252.6	59.3	1.000048
48000.0	130.5	-59.0		212.2	570.1	253.7	56.0	1.000047
48500.0	127.3	-59.9		208.0	568.9	254.0	53.4	1.000046
49000.0	124.3	-60.7		203.8	567.9	255.2	51.2	1.000045
49500.0	121.3	-61.2		199.4	567.1	253.9	51.4	1.000044
50000.0	118.3	-61.8		195.0	566.4	252.7	51.8	1.000043
50500.0	115.3	-62.3		190.8	565.6	252.0	53.8	1.000042
51000.0	112.7	-62.9		186.7	564.9	251.3	55.9	1.000042
51500.0	109.9	-63.5		182.6	564.1	251.3	57.2	1.000041
52000.0	107.3	-63.9		178.6	563.5	251.3	58.5	1.000040
52500.0	104.7	-64.0		174.3	563.4			1.000039
53000.0	102.1	-64.0		170.1	563.4			1.000038

STATION ALTITUDE 4047.27 FEET MSL
12 FEB. 80 1321 HRS MST
ACCESSION NO. 2

MANDATORY LEVELS
0430180002
LC-37

GEODETIC COORDINATES
32.41141 LAT DEG
106.30852 LON DEG

TABLE 10

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DATA	
				DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	4892.	8.4	38.	214.2	4.6
800.0	6521.	3.6	48.	229.9	5.1
750.0	8225.	-1.5	62.	239.8	8.0
700.0	10011.	-6.3	56.	249.3	10.8
650.0	11924.	-12.4	18.	251.4	7.5
600.0	13970.	-19.1	21.	232.2	6.3
550.0	16157.	-24.4	22.	277.9	12.5
500.0	18501.	-29.1	22.	265.4	19.5
450.0	21034.	-32.9	22.	262.5	25.9
400.0	23796.	-37.4	23.	266.4	27.7
350.0	26836.	-42.9	10.0*	260.7	29.0
300.0	30231.	-48.1		260.2	32.6
250.0	34094.	-53.1		243.6	32.8
200.0	38810.	-58.6		240.9	61.2
175.0	41673.	-64.4		240.8	71.5
150.0	44961.	-69.4		249.3	60.2
125.0	48746.	-74.5		255.3	51.5
100.0	53257.	-84.1			

* * * AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

SIGNIFICANT LEVEL DATA
0430020070
WHALE SAROUS

STATION ALTITUDE 3989.00 FEET MSL
12 FEB. 80
ASCENSION NO. 70

TABLE 11

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
878.3	14.2	2.5	45.0
850.0	10.0	-1.4	45.0
801.4	5.1	-3.9	52.0
752.0	.5	-4.9	67.0
700.0	-5.3	-5.4	99.0
692.6	-6.0	-8.4	93.0
686.2	-3.4	-18.1	31.0
658.4	-3.1	-17.8	31.0
632.2	-5.8	-20.2	31.0
605.8	-7.1	-19.0	36.0
500.0	-18.8	-30.1	36.0
444.4	-24.8	-35.5	36.0
400.0	-31.2	-41.3	36.0
366.4	-36.3	-44.7	41.0
333.6	-41.4	-45.5	64.0
315.0	-44.3	-49.0	59.0
300.0	-47.2		
268.0	-53.0		
250.0	-54.2		
240.8	-55.1		
225.0	-53.0		
215.0	-50.0		
200.0	-49.7		
187.0	-49.1		
182.6	-48.3		
165.4	-49.1		
157.2	-30.3		
150.0	-52.0		

STATION ALTITUDE 3989.00 FEET MSL
12 FEB. 60 1330 HRS MST
ADDITION NO. 70

UPPER AIR DATA
0430020070
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT N
106.37033 LONG W

TABLE 12

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TRUE)	SPEED KNOTS	
3500.0	878.5	14.2	45.0	1061.5	601.4	270.0	1.0	1.000270
4000.0	877.9	14.1	45.0	1061.2	601.4	269.7	1.0	1.000270
4500.0	862.1	11.8	45.0	1051.1	606.5	255.7	.8	1.000263
5000.0	846.6	9.7	45.5	1040.2	600.0	236.1	.7	1.000258
5500.0	831.1	8.1	47.7	1026.9	604.1	215.4	.7	1.000253
6000.0	815.8	6.6	49.9	1013.7	602.5	195.7	.8	1.000249
6500.0	800.4	5.1	52.1	1000.7	600.5	182.5	1.4	1.000245
7000.0	786.0	3.7	56.6	986.9	648.9	178.9	2.1	1.000242
7500.0	771.4	2.5	61.0	973.3	647.5	185.6	2.7	1.000239
8000.0	757.0	1.0	65.4	959.9	645.7	190.6	3.2	1.000236
8500.0	742.7	-.5	72.5	946.9	644.0	202.5	3.8	1.000233
9000.0	728.7	-2.1	81.1	934.3	642.2	214.7	4.5	1.000230
9500.0	714.8	-3.6	89.6	921.8	640.3	234.0	6.5	1.000227
10000.0	701.5	-5.2	98.2	909.6	638.5	244.6	9.2	1.000224
10500.0	687.8	-4.1	44.4	889.5	639.4	254.3	10.1	1.000209
11000.0	674.7	-3.3	31.0	870.3	640.3	260.8	10.6	1.000202
11500.0	661.9	-3.1	31.0	853.2	640.4	261.6	8.6	1.000198
12000.0	649.2	-4.0	31.0	839.7	639.4	258.3	6.9	1.000194
12500.0	636.8	-5.3	31.0	827.7	637.8	241.0	6.0	1.000191
13000.0	624.6	-6.2	32.4	814.4	638.8	227.3	5.9	1.000188
13500.0	612.5	-6.8	34.7	800.4	636.1	219.6	6.1	1.000185
14000.0	600.6	-7.6	36.0	787.4	635.1	221.9	6.0	1.000182
14500.0	588.7	-8.8	36.0	775.4	635.6	237.3	5.4	1.000179
15000.0	577.1	-10.1	36.0	753.7	632.1	252.1	6.1	1.000176
15500.0	565.7	-11.3	36.0	752.1	630.6	259.7	8.1	1.000173
16000.0	554.0	-12.5	36.0	740.7	629.2	261.5	10.7	1.000170
16500.0	543.0	-13.7	36.0	729.5	627.7	261.1	13.5	1.000167
17000.0	532.4	-14.9	36.0	718.5	626.2	263.7	15.3	1.000164
17500.0	522.4	-16.1	36.0	707.7	624.7	266.5	16.9	1.000161
18000.0	512.0	-17.3	36.0	697.0	623.2	267.5	18.1	1.000159
18500.0	501.4	-18.6	36.0	686.6	621.7	268.5	19.3	1.000156
19000.0	491.7	-19.6	36.0	675.5	620.4	267.4	21.0	1.000153
19500.0	481.7	-20.7	36.0	664.5	619.1	266.4	22.7	1.000151
20000.0	471.8	-21.7	36.0	653.6	617.8	265.3	24.0	1.000148
20500.0	462.2	-22.8	36.0	643.0	616.5	264.6	25.4	1.000145
21000.0	452.8	-23.9	36.0	632.5	615.2	263.7	27.0	1.000143
21500.0	443.5	-24.9	36.0	622.3	613.9	260.7	28.1	1.000140
22000.0	434.2	-26.2	36.0	612.4	612.5	268.2	26.5	1.000138
22500.0	425.1	-27.5	36.0	602.7	610.7	269.2	25.2	1.000136
23000.0	416.2	-28.8	36.0	593.2	609.1	268.7	24.9	1.000133

STATION ALTITUDE 3989.00 FEET ASL
12 FEB. 60 1330 HRS MST
ASCENSION NO. 70

UPPER AIR DATA
0430020070
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 12 (CONT)

GEOM. INC. ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (DEGREES TRUE)	SPEED KNOTS	INDEX OF REFRACTION
23500.0	407.5	-30.1	36.0	583.9	607.4	268.0	25.1	1.000131
24000.0	396.9	-31.4	36.2	574.7	605.8	266.9	27.0	1.000129
24500.0	390.4	-32.6	37.4	565.3	604.2	265.9	28.7	1.000127
25000.0	382.0	-33.9	38.6	556.1	602.7	264.7	29.3	1.000125
25500.0	373.6	-35.1	39.9	547.1	601.1	263.3	29.8	1.000123
26000.0	365.8	-36.4	41.4	538.2	599.5	261.2	29.9	1.000121
26500.0	357.8	-37.6	46.8	529.1	598.0	259.5	29.9	1.000119
27000.0	350.0	-38.8	52.3	520.2	596.4	259.1	29.1	1.000117
27500.0	342.3	-40.0	57.7	511.4	594.9	259.3	28.8	1.000115
28000.0	334.6	-41.2	63.1	502.8	593.4	260.5	29.4	1.000113
28500.0	327.4	-42.4	62.4	494.1	591.9	261.5	30.0	1.000111
29000.0	320.1	-43.5	60.4	485.5	590.4	262.2	30.8	1.000109
29500.0	312.9	-44.7	51.0**	477.1	588.9	262.6	31.3	1.000107
30000.0	305.9	-46.0	23.5**	469.2	587.1	262.7	31.6	1.000105
30500.0	299.0	-47.4		461.3	585.4	262.0	31.6	1.000103
31000.0	292.1	-48.6		453.1	583.8	260.5	31.3	1.000101
31500.0	285.4	-49.8		445.1	582.3	259.7	30.5	1.000099
32000.0	278.8	-51.0		437.2	580.7	259.2	29.4	1.000097
32500.0	272.4	-52.2		429.4	579.1	259.0	29.8	1.000095
33000.0	266.1	-53.1		421.4	577.9	257.6	31.1	1.000094
33500.0	259.9	-53.5		412.3	577.3	252.3	35.7	1.000092
34000.0	253.9	-53.9		403.4	576.8	249.2	40.0	1.000090
34500.0	247.9	-54.4		394.6	576.2	249.2	43.8	1.000088
35000.0	242.1	-55.0		386.6	575.4	247.8	46.2	1.000086
35500.0	236.4	-54.5		376.8	576.0	249.3	47.3	1.000084
36000.0	230.9	-53.8		366.7	577.0	250.6	48.6	1.000082
36500.0	225.5	-53.1		357.0	577.9	251.6	50.0	1.000080
37000.0	220.3	-51.6		346.4	579.9	251.6	51.8	1.000077
37500.0	215.2	-50.1		336.1	581.9	251.4	53.8	1.000075
38000.0	210.3	-49.9		326.1	582.1	250.3	56.0	1.000073
38500.0	205.3	-49.8		320.5	582.2	249.1	58.4	1.000071
39000.0	200.7	-49.7		313.0	582.3	248.6	60.4	1.000070
39500.0	196.1	-49.5		305.6	582.6	248.2	62.3	1.000068
40000.0	191.7	-49.3		298.3	582.8	246.9	63.9	1.000066
40500.0	187.3	-49.1		291.2	583.1	245.7	66.4	1.000065
41000.0	183.0	-48.4		283.6	584.1	244.5	74.5	1.000063
41500.0	178.8	-48.5		277.3	584.0	243.6	78.7	1.000062
42000.0	174.7	-48.7		271.2	583.7	243.6	73.1	1.000060
42500.0	170.8	-48.8		265.2	583.5	244.0	68.2	1.000059
43000.0	166.9	-49.0		259.4	583.2	246.6	64.0	1.000058

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3989.00 FEET MSL
12 FEB. 60 1330 HRS MSL
ASCENSION NO. 70

UPPER AIR DATA
043000070
WHITE SANDS

GEODETTIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 12 (CONT)

GEODETTIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CM ³ NETEN	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES (T)	SPEED KNOTS	
43500.0	163.1	-44.0			240.0	569.7	248.6	66.3	1.000055
44000.0	159.6	-35.8			234.2	600.2	250.4	72.5	1.000052
44500.0	156.1	-33.7			227.0	602.9			1.000051
45000.0	152.6	-44.0			232.0	569.7			1.000052

STATION ALTITUDE 3989.00 FEET MSL
12 FEB. 60
ASCENSION NO. 70

MANDATORY LEVELS
0430020070
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

TABLE 13

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4887.	10.0	-1.4	45.	240.9	.7
800.0	6525.	5.0	-3.9	52.	182.2	1.4
750.0	8239.	.3	-4.9	68.	194.4	3.5
700.0	10038.	-5.3	-5.4	99.	245.5	9.2
650.0	11958.	-4.0	-18.5	51.	259.3	7.0
600.0	14014.	-7.7	-20.1	36.	222.6	5.9
550.0	16213.	-13.0	-24.9	36.	261.2	12.0
500.0	18571.	-18.8	-30.1	36.	268.3	19.6
450.0	21120.	-24.2	-34.9	36.	260.0	27.5
400.0	23899.	-31.2	-41.3	50.	267.1	26.8
350.0	26955.	-38.8	-44.8	52.	259.2	29.2
300.0	30366.	-47.2			262.2	31.6
250.0	34251.	-54.2			248.2	42.3
200.0	38937.	-49.7			240.5	60.6
175.0	41864.	-48.6			243.8	73.7
150.0	45266.	-52.0				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4047.27 FEET MSL
12 FEB. 80
ASCENSION NO. 3

SIGNIFICANT LEVEL DATA
0430180003
LC-37

GEODETTIC COORDINATES
32.41141 LAT DEG
106.30852 LON DEG

TABLE 14

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE		REL. HUM. PERCENT
855.7	13.2	-1.2	37.0
850.0	9.2	-6.2	33.0
792.0	4.4	-5.9	47.0
750.0	.2	-7.1	58.0
710.0	-4.4	-7.6	78.0
700.0	-5.0	-15.3	44.0
690.8	-3.6	-23.2	20.0
662.4	-3.5	-25.0	17.0
608.2	-7.6	-26.1	21.0
500.0	-19.4	-35.2	23.0
457.8	-23.9	-39.9	21.0
400.0	-32.1	-46.0	22.0
377.8	-35.6	-46.5	25.0
365.6	-37.4	-46.9	36.0
347.6	-39.8	-44.2	62.0
315.6	-45.4	-50.0	59.0
300.0	-47.7		
266.8	-54.6		
250.0	-55.9		
238.2	-57.4		
231.5	-57.0		
220.2	-50.6		
200.0	-51.8		
171.0	-49.6		
150.0	-52.8		
116.6	-62.1		
103.0	-64.5		
100.0	-64.1		

STATION ALTITUDE 4047.27 FEET MSL
12 FEB. 80
ADDITIONAL NO. 3

UPPER AIR DATA
0430180003
LC-37

GEODETIC COORDINATES
32-41141 LAT DEG
106-30852 LON DEG

TABLE 15

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARMS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES (TN)	SPEED KNOTS	
4047.3	875.7	13.2	-1.2	37.0	1062.8	600.0	220.0	4.1	1.000263
4500.0	861.4	11.0	-3.9	34.8	1054.0	657.3	227.8	5.0	1.000256
5000.0	845.7	8.9	-6.1	34.0	1042.9	654.8	233.4	6.1	1.000251
5500.0	830.2	7.6	-5.9	37.7	1028.3	653.3	237.3	7.3	1.000248
6000.0	814.9	6.3	-5.8	41.3	1013.9	651.9	240.0	8.3	1.000245
6500.0	800.0	5.1	-5.8	45.0	999.8	650.4	241.6	8.3	1.000242
7000.0	785.2	3.7	-6.0	48.7	986.0	648.9	242.5	8.2	1.000239
7500.0	770.5	2.3	-6.4	52.5	972.8	647.2	241.6	7.9	1.000236
8000.0	756.2	.8	-6.9	56.3	959.7	645.4	242.5	7.5	1.000232
8500.0	741.9	-1.7	-7.1	61.9	946.9	643.8	248.0	6.9	1.000229
9000.0	727.9	-2.3	-7.2	68.9	934.5	641.7	250.0	6.7	1.000227
9500.0	714.1	-3.9	-7.5	75.9	922.3	639.8	250.8	7.5	1.000224
10000.0	700.4	-5.0	-14.9	45.5	908.9	638.3	271.6	8.6	1.000213
10500.0	687.1	-3.6	-23.5	19.6	887.5	639.8	270.8	10.2	1.000202
11000.0	673.9	-3.5	-24.2	18.2	870.4	639.8	268.8	11.3	1.000198
11500.0	661.1	-3.6	-25.0	17.1	854.0	639.8	259.8	10.6	1.000194
12000.0	648.4	-4.5	-25.2	18.0	840.5	638.7	247.9	10.2	1.000191
12500.0	635.9	-5.5	-25.4	18.9	827.2	637.5	232.2	10.4	1.000188
13000.0	623.7	-6.4	-25.7	19.8	814.1	636.4	224.8	10.8	1.000185
13500.0	611.7	-7.3	-26.0	20.7	801.3	635.3	224.5	10.8	1.000182
14000.0	599.7	-8.4	-26.7	21.1	788.9	634.0	229.2	10.3	1.000179
14500.0	587.8	-9.7	-27.6	21.3	776.9	632.5	238.7	9.7	1.000176
15000.0	576.2	-10.9	-28.6	21.6	765.0	631.1	246.7	9.8	1.000174
15500.0	564.8	-12.1	-29.5	21.8	753.3	629.6	253.2	10.3	1.000171
16000.0	553.6	-13.3	-30.4	22.0	741.9	628.1	258.5	11.3	1.000168
16500.0	542.7	-14.5	-31.3	22.2	730.6	626.7	262.9	12.4	1.000165
17000.0	531.9	-15.7	-32.3	22.4	719.5	625.2	265.2	14.4	1.000163
17500.0	521.4	-16.9	-33.2	22.6	708.6	623.7	266.7	16.5	1.000160
18000.0	511.1	-18.1	-34.2	22.8	697.8	622.3	265.4	18.5	1.000157
18500.0	501.0	-19.3	-35.1	23.0	687.3	620.8	264.0	20.4	1.000155
19000.0	490.8	-20.4	-36.2	22.6	676.2	619.5	261.1	22.8	1.000152
19500.0	480.7	-21.4	-37.3	22.1	665.1	618.2	258.6	25.1	1.000150
20000.0	470.9	-22.5	-38.4	21.6	654.3	616.9	258.3	27.1	1.000147
20500.0	461.3	-23.5	-39.5	21.2	643.6	615.6	258.3	28.7	1.000145
21000.0	451.7	-24.7	-40.6	21.1	633.3	614.1	259.8	29.1	1.000142
21500.0	442.3	-26.0	-41.6	21.3	623.3	612.5	261.3	29.7	1.000140
22000.0	433.0	-27.3	-42.7	21.4	613.5	610.9	262.9	30.8	1.000138
22500.0	423.9	-28.6	-43.7	21.6	603.8	609.3	264.1	31.3	1.000135
23000.0	415.1	-29.9	-44.7	21.7	594.3	607.7	264.5	30.6	1.000133
23500.0	406.4	-31.1	-45.8	21.9	584.9	606.1	265.1	29.8	1.000131

STATION ALTITUDE 4047.27 FEET MSL
12 FEB. 80 1500 HRS MST
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UPPER AIR DATA
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GEOGETIC COORDINATES
32.41141 LAT DEG
106.30852 LON DEG

TABLE 15 (CONT)

GEOM. INIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (DEGREES (TN))	SPEED KNOTS	INDEX OF REFRACTION
24000.0	397.8	-32.4	22.3	575.7	604.5	260.1	28.6	1.000129
24500.0	389.3	-33.8	23.4	566.5	602.8	260.0	28.1	1.000127
25000.0	380.9	-35.1	24.6	557.4	601.1	260.0	28.8	1.000125
25500.0	372.7	-36.3	29.6	548.2	599.5	264.4	29.1	1.000123
26000.0	364.6	-37.5	37.4	539.0	598.0	261.7	29.1	1.000121
26500.0	356.6	-38.6	48.8	529.6	596.7	259.8	29.1	1.000119
27000.0	348.8	-39.6	60.2	520.3	595.4	258.2	29.0	1.000117
27500.0	341.1	-40.8	61.5	511.4	593.8	257.3	29.4	1.000115
28000.0	333.5	-42.1	60.8	502.7	592.3	256.5	29.9	1.000113
28500.0	326.1	-43.3	60.1	494.1	590.7	256.0	30.7	1.000111
29000.0	318.8	-44.5	59.5	485.7	589.1	255.5	31.4	1.000109
29500.0	311.7	-45.7	51.0**	477.4	587.5	254.0	31.5	1.000107
30000.0	304.7	-46.9	20.6**	469.1	586.0	253.7	31.5	1.000105
30500.0	297.7	-48.1		461.0	584.4	253.8	31.2	1.000103
31000.0	290.9	-49.5		453.1	582.6	254.1	30.9	1.000101
31500.0	284.1	-50.9		445.4	580.8	256.7	30.8	1.000099
32000.0	277.6	-52.3		437.8	579.0	259.3	30.7	1.000098
32500.0	271.2	-53.6		430.4	577.2	260.8	31.0	1.000096
33000.0	264.9	-54.7		422.5	575.7	261.8	31.5	1.000094
33500.0	258.7	-55.2		413.5	575.1	259.5	32.9	1.000092
34000.0	252.6	-55.7		404.6	574.5	257.4	34.4	1.000090
34500.0	246.6	-56.3		396.2	573.7	255.7	36.8	1.000088
35000.0	240.8	-57.1		388.2	572.7	254.2	39.2	1.000086
35500.0	235.1	-57.2		379.2	572.5	254.0	41.2	1.000084
36000.0	229.5	-58.9		368.1	574.2	254.8	43.2	1.000082
36500.0	224.2	-52.9		354.6	578.2	253.8	46.0	1.000079
37000.0	219.0	-50.7		342.8	561.1	252.4	49.4	1.000076
37500.0	213.9	-51.0		335.4	560.7	250.2	54.2	1.000075
38000.0	209.0	-51.5		328.1	560.3	249.1	58.0	1.000073
38500.0	204.1	-51.5		320.9	579.9	249.2	60.0	1.000071
39000.0	199.4	-51.8		313.8	579.7	249.7	61.2	1.000070
39500.0	194.8	-51.4		306.1	560.1	250.7	61.3	1.000068
40000.0	190.4	-51.1		298.7	560.5	251.3	62.3	1.000067
40500.0	186.0	-50.8		291.4	580.9	251.1	64.7	1.000065
41000.0	181.7	-50.5		284.2	581.4	250.8	66.4	1.000063
41500.0	177.5	-50.1		277.3	561.8	250.1	67.0	1.000062
42000.0	173.4	-49.8		270.5	562.2	249.1	67.2	1.000060
42500.0	169.4	-49.8		264.3	562.2	247.4	66.8	1.000059
43000.0	165.5	-50.4		250.9	561.4	245.6	68.3	1.000058
43500.0	161.7	-51.0		253.5	560.7	244.5	72.3	1.000056

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4047.27 FEET MSL
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UPPER AIR DATA
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GEODETIC COORDINATES
32.41141 LAT DEG
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TABLE 15 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
44000.0	158.0	-51.5		240.3	560.0	244.4	75.6	1.000055
44500.0	154.3	-52.1		243.2	579.2	245.8	77.9	1.000054
45000.0	150.8	-52.7		238.2	578.5	247.7	78.2	1.000053
45500.0	147.2	-53.5		233.5	577.4	250.6	76.0	1.000052
46000.0	143.7	-54.4		228.9	576.2	252.7	72.9	1.000051
46500.0	140.3	-55.3		224.4	575.1	253.0	68.4	1.000050
47000.0	137.0	-56.1		219.9	573.9	253.3	64.4	1.000049
47500.0	133.7	-57.0		215.6	572.7	253.4	61.6	1.000048
48000.0	130.6	-57.9		211.3	571.5	253.4	58.9	1.000047
48500.0	127.5	-58.8		207.2	570.4	253.3	56.5	1.000046
49000.0	124.5	-59.7		203.1	569.2	252.2	54.5	1.000045
49500.0	121.5	-60.6		199.1	568.0	248.8	53.9	1.000044
50000.0	118.6	-61.5		195.2	566.8	245.3	54.3	1.000043
50500.0	115.8	-62.2		191.2	565.8	243.6	57.7	1.000043
51000.0	113.0	-62.7		187.0	565.1	242.2	61.1	1.000042
51500.0	110.2	-63.2		182.9	564.5	245.3	62.7	1.000041
52000.0	107.5	-63.7		178.8	563.9	248.3	64.5	1.000040
52500.0	104.9	-64.1		174.9	563.2			1.000039
53000.0	102.4	-64.4		170.8	562.9			1.000038

STATION ALTITUDE 9047.27 FEET MSL
12 FEB. 60
ASCENSION NO. 3

MANDATORY LEVELS
0430180003
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GEOGETIC COORDINATES
32.41141 LAT DEG
106.30852 LONG DEG

TABLE 16

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
		AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	4860.	9.2	-6.2	33.	232.1	5.8
800.0	6496.	5.1	-5.8	45.	241.0	8.3
750.0	8210.	.2	-7.1	50.	244.7	7.2
700.0	10007.	-5.0	-15.3	44.	271.6	8.7
650.0	11926.	-4.4	-25.2	18.	250.0	10.3
600.0	13979.	-8.4	-26.7	21.	229.0	10.4
550.0	16172.	-13.7	-30.7	22.	260.2	11.7
500.0	18523.	-19.4	-35.2	23.	263.9	20.6
450.0	21065.	-24.9	-40.8	21.	260.0	29.2
400.0	23834.	-32.1	-46.6	22.	265.8	28.9
350.0	26878.	-39.5	-44.5	50.	258.4	29.0
300.0	30278.	-47.7			253.8	31.3
250.0	34142.	-55.9			256.7	35.4
200.0	38848.	-51.8			249.6	61.2
175.0	41700.	-49.9			249.8	67.3
150.0	44991.	-52.8			248.2	77.8
125.0	48793.	-59.5			252.9	54.7
100.0	53307.	-64.1				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

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